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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : **Confirmation No. 8224**
Toru SUZUKI et al. : Attorney Docket No. 2001_0554A
Serial No. 09/854,528 : Group Art Unit 1731
Filed May 15, 2001 : Examiner John M. Hoffmann

ORIENTED SINTERED CERAMIC
PRODUCT AND
MANUFACTURING METHOD THEREOF : **Mail Stop Amendment**

SUPPLEMENTAL RESPONSE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEE FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975.

Sir:

The remarks set forth below supplement those in the Amendment filed July 28, 2006 in response to the Office Action of March 29, 2006.

Thus, referring to the rejection of claims 1 and 12-14 under 35 U.S.C. §101, as well as the rejection of these claims under the first paragraph of 35 U.S.C. §112, Applicants note that the prior art neither discloses nor suggests the adjustment of the solid content of the slurry in the present invention. The particles of claim 1 are not oriented only by applying a usual colloidal solution to magnetic field orientation as shown in the Declaration. It is necessary to adjust the solid content of the slurry in proportion to the particle diameter used. In the magnetic field orientation of Topchiashvili et al., large enough magnetic susceptibilities of HTSC such as $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ and $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$, and the use of other components, enable the HTSC particles to be oriented.

With regard to nature of smudge marks on the "Attached sheet" which was submitted with the Amendment filed March 8, 2006, in the original graphs (copy enclosed) provided by the

inventors, the titles of the vertical axis of both graphs cannot be read because the letters are not transverse. Therefore, the titles were clarified without changing the words. Such a display error might occur in case of copying and pasting the graph between the different computer softwares, because there is a custom of writing text in a vertical direction in Japanese and a vertically-written function of the computer software has been enhanced.

Respectfully submitted,

Toru SUZUKI et al.

By: 

Michael R. Davis

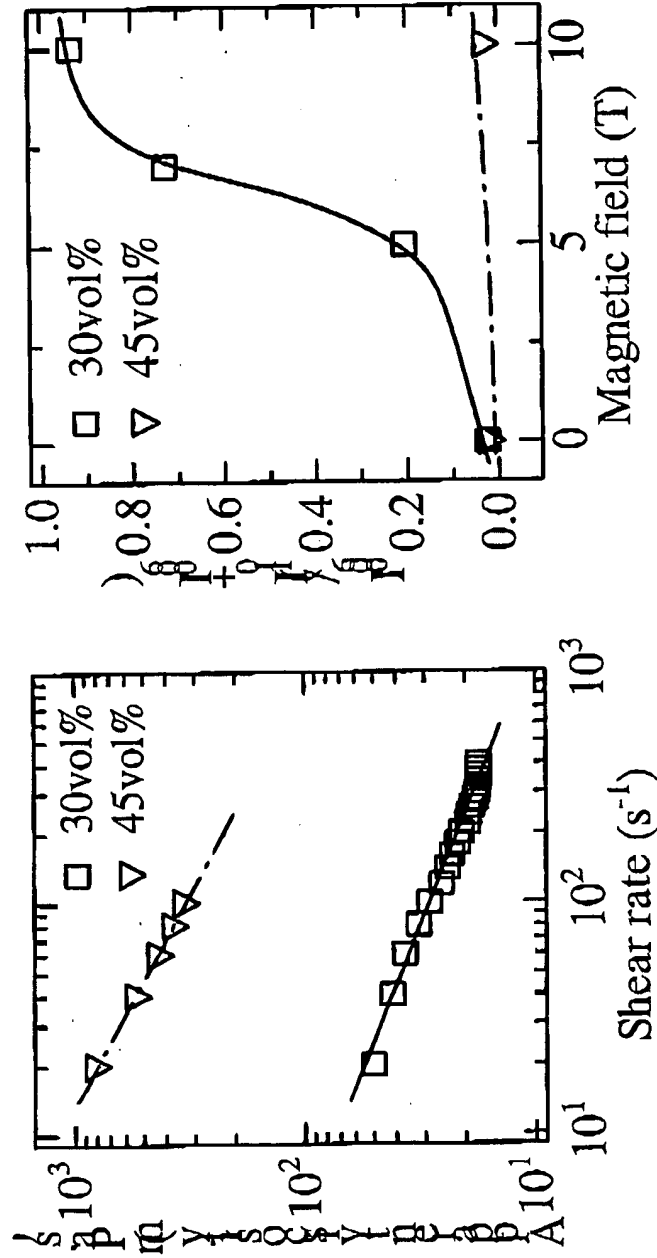
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を組み合わせることににより本発明が自明との見解に関してですが、通常のコロイドプロセスの手法を用いた場合が下図の 45vol% の場合であり、この場合には 10T (テスラ) を印加しても配向度 ($I_{000}/(I_{110}+I_{000})$) が 0.05 程度にしかならず、通常のコロイドプロセスに磁場プロセスを組み合わせただけでは配向させることは出来ません。コロイドプロセスを磁場プロセスでも使えるようにさらに高度化をすることにより初めて配向が可能となります。



図、通常のコロイドプロセス条件と本発明によるコロイドプロセスでの磁場配向の違い